

Hot Tubs and/or Spas

10/2010

Information for the installation of hot tubs and/or spas for residential dwellings.

Contact the Community Planning & Building Department for location information and other zoning requirements if installed outdoors.

OUTDOOR INSTALLATIONS

- Electrical permit and inspection required.
- Wiring methods shall be as required by NEC chapters 1 through 4.
- Conductor and overcurrent devices to be 125% of rated current of unit.
- A weatherproof receptacle shall be located between six (6) and twenty (20) feet from a hot tub or spa.
- All receptacles shall be GFCI protected.
- Lighting fixtures, lighting outlets and ceiling fans are not to be located over a hot tub or spa or in an area five (5) feet horizontally from the walls of a hot tub or spa.
- Switching devices shall be located at least five (5) feet horizontally from the inside walls of a hot tub or spa.
- Overhead service conductors are not allowed above a hot tub or spa in an area extending ten (10) feet horizontally from the walls of a hot tub or spa.
- Underground wiring is not allowed under or within an area five (5) feet horizontally from the walls of a hot tub or spa.
- Disconnecting means shall be accessible, located within sight and shall be at least five (5) feet horizontally from the walls of a hot tub or spa.
- All metal parts of electric equipment within five (5) feet of the walls of a hot tub or spa, as well as all electrical associated equipment of a hot tub or spa, shall be bonded together through a common grid by not less than a No. 8 solid copper conductor-insulated, covered or bare.
- Groundings required per NEC 680 for panelboards, motors and lights.

INDOOR INSTALLATIONS

- Electrical permit and inspection required.
- Wiring methods shall be as required by NEC chapter 3.
- Conductor and overcurrent devices to be 125% of rated current of unit.
- Receptacles to be a minimum of six (6) feet from the inside walls of a hot tub or spa.
- All receptacles within ten (10) feet of inside walls of a hot tub or spa shall be GFCI protected.
- Lighting fixtures, lighting outlets and ceiling fans located over or within five (5) feet from the inside walls of a hot tub or spa shall be a minimum of seven feet six inches (7'6") above maximum water level and be protected by GFCI.
- Wall switches shall not be located within five (5) feet horizontally of the inside walls of a hot tub or spa.
- All metal parts of electric equipment within five (5) feet of the inside walls of a hot tub or spa, as well as all electrical associated equipment including pump motors of a hot tub or spa, shall be bonded together by a bonding jumper not less than a No. 8 solid copper conductor-insulated, covered or bare.
- All electrical equipment located within five (5) feet of the inside walls of a hot tub or spa and all electrical equipment associated with the circulating system shall be grounded per NEC Article 250.
- All electric hot tub and spa water heaters shall be listed and shall have the heating elements subdivided into loads not exceeding forty-eight (48) amperes. Circuit conductors and overcurrent devices shall not be less than 125% of the total load of the nameplate rating.
- All self-contained hot tubs or spas, or a package hot tub or spa, shall be protected by GFCI.

BUILDING CODES

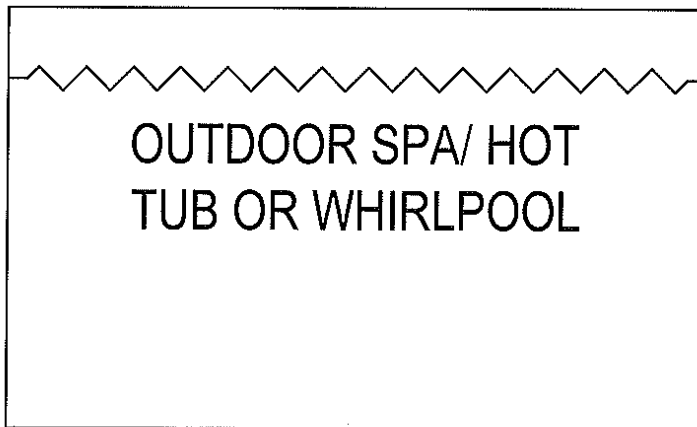
- Decks & elevated walking surfaces for single family dwellings shall be designed to support a minimum 40 pounds per square foot live load. Decks supporting hot tubs or spas shall be designed to support the weight recommended by the tub/spa manufacturer plus a 40 pounds per square foot live load on adjacent deck areas. A plan for the deck is required to verify that adequate support is to be provided.
- Any window within five (5) feet from the inside walls of a hot tub or spa and five (5) feet or less above the walking surface surrounding the area of the hot tub or spa shall be tempered safety glass.



Switching device 5.0' minimum
from spa/tub

No receptacles closer
than 6.0'

All receptacles within 10.0'
must be GFCI protected



Switching device 5.0' minimum
from spa/tub

At least one receptacle no closer
than 6.0' and not more than 20.0'

All receptacles within 20.0'
must be GFCI protected